## PAPERS, REPORTS, PRESENTATIONS & PROFESSIONAL PROCEEDINGS

"Telecommunications Trade and Investment Opportunities in China and India," presented to the Massachusetts Telecommunications Council, Boston, February 1995.

"The Strategic Implications of Interactive Broadband Telecommunications Networks for Competition and Public Policy," presented to the National Communications Forum, Chicago, September 1994.

"Competitive Implications of Vertical Relations between Equipment Vendors and Telecommunications Services: Lessons from the French Experience," with Joanne Oxley, presented to European Regional Conference of the International Telecommunications Society, Stenungsbaden, Sweden, June 21, 1993.

"Obtaining Competitive Intelligence and Creating Competitive Advantage through the Public Policy Process," with Steven Harris, invited paper, Annual Conference of the Society for Competitive Intelligence Professionals, Los Angeles, April 2, 1993.

"Deployment and Adoption of Integrated Services Digital Network in the U.S.: Progress and Public Policy Obstacles," with Luis Enriquez, invited paper, Twenty-Fourth Annual Conference, Michigan State University Institute of Public Utilities, Williamsburg, Virginia, December 8, 1992.

"Market Definition and Market Power in the Sports and Entertainment Industry," invited presentation, Antitrust Section, American Bar Association Annual Proceedings, San Francisco, August 1992.

"The Design of Incentive Regulation for Telecommunications," invited presentation, Conference on Alternative Regulation, Illinois Commerce Commission, Chicago, July 1992.

"The Effects of Public Policies on ISDN Deployment and Adoption in the U.S.," presented to International Telecommunications Society, Cannes, France, June 1992.

"Removing the MFJ Restriction on InterLATA Services," invited testimony, Subcommittee on Telecommunications & Finance, U.S. House of Representatives, Washington D.C., May 1992.

"The Implications of Telecommunications Infrastructure Investment for R&D, Innovation and Competitiveness," invited testimony, Subcommittee on Communications, U.S. Senate, Washington D.C., February 1992.

"Principles of Costing and Pricing for Telecommunications Regulatory Policy," invited testimony, Colorado Public Utilities Commission En Banc Hearing, Denver, February 1992.

"Deregulation and Interstate Bank Entry in California," with Lee Burke, Research Report of the California Policy Seminar, UC Berkeley, April 1991.

"Assessing the Future of Telecommunications in the Global Economy," invited address, California Telephone Association, Monterey, CA, February 1991.

"Economic Rationale for a National Fiber Optic Infrastructure," invited address, Congressional Staff Forum on Telecommunications (sponsored by Ameritech), Washington D.C., February 1991.

"Applications of Incentive Regulation: An International Comparison," invited presentation, Conference of California Public Utilities Counsel, Long Beach, CA, October 1990.

"The Role of Telecommunications in Regional Economic Development," invited address, Rocky Mountain State Leaders Conference, Billings, Montana, October 1990.

"Telecommunications and Public Policies in the Global Market," invited address, Carnegie Council, New York, NY, October 1990.

"Why We Need a National Telecommunications Policy: A Comparative Perspective," invited address, Policy Issues Management Conference, Bell Communications Research, Murray Hill, NJ, October 1990.

"Incentive Regulation for Telephone Utilities," invited presentation, Workshop of the Colorado Public Utilities Commission, Denver, September 1990.

"The Role of Telecommunications Policy," invited lecture, Conference on Economic Development in the Pacific Northwest, Portland, Oregon, September 1990.

"The Changing Economics of Telecommunications: Implications for U.S. Policy and Competitiveness," invited briefing of U.S. Congressional staff on telecommunications (sponsored by Pacific Telesis), San Francisco, August 1990.

"Communications Competitiveness and Infrastructure Modernization Act of 1990," invited testimony, Communications Subcommittee, U. S. Senate, Washington D.C., July 1990.

"Investing in America's Future," invited essay, 1989 Annual Report of Southwestern Bell Corporation, St. Louis, 1990.

"The Public Switched Telephone Network and Rural Economic Development," invited lecture, Montana State Leaders' Conference, Helena, April 1990.

"Is Public Policy Meeting the Needs of Consumers?" invited panelist, Conference on Telecommunications Technologies and Policies, Center for Communications and Information Science & Policy, University of Pennsylvania, March 1990.

"Telecommunications as a Strategic Industry," invited address, New England Council, Boston, February 1990.

"Fiber to the Customer: A Public Policy Perspective," invited paper, Western Communications Forum, San Diego, February 1990.

Session Chair and Moderator, "State Regulatory Reform: Recent and Future Trends," Fifth Conference on State Telecommunications Regulation, University of Utah, Salt Lake City, January 1990.

Invited Panelist, "Crossroads of Information Technology," Board on Telecommunications and Computer Applications, National Academy of Engineering, Washington D.C., October 1989

Invited panelist in the "Industry Forum," Annual Meeting of the U.S. Telephone Association, San Francisco, October 1989.

- "Strategic Lessons from Deregulated Industries," paper presented to Strategic Management Society, San Francisco, October 1989.
- "Deregulation in the Transportation Industries: Lessons for Telecommunications Managers," invited paper, Center for Telecommunications Management, University of Southern California, October 1989.
- "Price Cap Regulation and Economic Forecasting," invited presentation to 1989 National Forecasting Conference, Bell Communications Research, San Francisco, May 1989.
- "The Strategic Implications of Telecommunications Deregulation in Europe," invited presentation, Strategic Management Society, Amsterdam, October 1988.
- "Telecommunications Deregulation: Implications for the California Economy," invited presentation, California Foundation for the Environment and the Economy, Carmel, June 1988.
- "A Comparison of U.S. and Japanese Policies toward Information Technologies," invited presentation, International Public Economics Association, Tokyo, May 1988.
- "Information Technologies, Public Policy, and Regional Economic Development," invited address, Conference on Regional Development in Japan, Hokkaido University, Sapporo, Japan, May 1988.
- "The Implications of Line-of-Business Regulation for Diversification Strategy & Enterprise Structure," presented to Strategic Management Society, Boston, October 1987.
- "Alternative Regulatory Frameworks for Local Exchange Carriers," invited presentation, En Banc Hearing of the California Public Utility Commission, September 1987.
- "Emerging Telecommunications Policies in Europe," Briefing of California Legislative Leaders, Los Angeles, September 1987.
- "Japanese Corporate Philanthropy in the United States," presented to Academy of Management, New Orleans, August 1987; Center for Research in Management Working Paper BPP-23; published in summary form in Strategic Directions, with Barbara Lombardo and David Vogel, April 1989.
- "The Effects of Deregulation on Competition and Competition Policy in Banking: A Review of the Literature," Working Paper No. 4, National Center for Financial Services, Berkeley, August 1987.
- "Competitive Strategies under Regulatory Constraint: Implications of the AT&T Divestiture on Vertical Relations in Telecommunications," with David J. Teece, paper presented to Strategic Management Society, Singapore, 1986.
- "The Economic Consequences of Deregulation," invited address, Emerging Issues Program, Conference of National State Legislative Leaders, Los Angeles, September 1986.
- "Public Policies toward Utility Diversification: An Overview," invited presentation, California Policy Seminar/California Senate Office of Research, Berkeley, April 1986.
- "New Technologies for Local Loop Access: An Economic and Regulatory Analysis," with Gary Pisano, Office of Technology Assessment, United States Congress, June 1985.

"Corporate Community Involvement in the Grenter San Francisco Bay Area," with D. Vogel and J. Logsdon, Center for Research in Management Working Paper, Berkeley, May 1985.

"The Future of Telecommunications Regulation," invited presentation, En Banc Hearing of the California Public Utilities Commission, San Francisco, November 1984.

"Testimony in Support The Taxpayer Antitrust Enforcement Act," Judiciary Committee, U.S. Senate, May 1984.

## **ADMINISTRATIVE POSITIONS, UNIVERSITY OF CALIFORNIA**

## WALTER A. HAAS SCHOOL OF BUSINESS

Chair, Business and Public Policy Group (1983-84, 1986-93).

Policy and Planning Committee (1986-88; 1991-93); Chair (1987-88; 1992-93).

Chair, Program in Business and Social Policy (1986-90).

Business School Building Program Committee (1986-91).

Ph.D. Field Advisor, Business and Public Policy (1981-87; 1989-91).

Policy and Planning Committee (1991-3; Chair, 1992-93).

Member, Board of Directors, Washington Campus Program (1990-93).

Director, The Executive Program (1983-85).

Director, Executive Programs in Telecommunications (1989-92).

Chair, Executive Education Task Force (1991-93).

Member, Board of Directors, Berkeley Center for Executive Development

### UNIVERSITY OF CALIFORNIA. BERKELEY

Executive Committee, Center for Research in Management (1989-).

Advisory Board, Lester Center for Innovation and Entrepreneurship (1992-).

Chancellor's Advisory Committee on Parking (1988-89).

Executive Committee, National Financial Services Center (1986-88).

Executive Committee, Institute of Transportation Studies (1981-83).

Director, Center for Transportation Policy Research (1980-2).

## UNIVERSITY OF CALIFORNIA, SYSTEMWIDE

Working Group on Technology Transfer (1988-90).

Task Force on Telecommunications and Information Policy Research (1984-85).

#### **PROFESSIONAL AFFILIATIONS**

American Economic Association

Academy of Management

Strategic Management Society

International Telecommunications Society

Association of Public Policy Analysis and Management

## SERVICE TO PROFESSIONAL JOURNALS, SOCIETIES & PUBLIC AGENCIES

Governor's Ad Hoc Committee, Golden State Quality Awards (1991-92)

Chair, Ninth Annual International Conference of the Strategic Management Society, 1989, San Francisco

Associate Editor, California Management Review

Associate Editor, Logistics and Transportation Review

Editorial Advisory Board, Transportation Research

Session organizer, Telecommunications Policy Research Conference (1988, 1989)

Session organizer, Academy of Management (1991).

Reviewer/Referee: Bell/RAND Journal of Economics; Industrial and Corporate Change; Journal of Asian Economics; Journal of Economics and Business; Journal of Public Policy Analysis & Management; Journal

of Regulatory Economics; National Science Foundation; Quarterly Review of Economics and Business;

Review of Economics and Statistics; Telecommunications Policy.

#### CONSULTING & TESTIMONY

## **Economic Consulting to Public Agencies:**

California Department of Consumer Affairs (industry analysis; telecommunications policy); California Office of Attorney General (antitrust analysis in tire industry, merger analysis in food retailing industry, resale price maintenance in consumer electronics, infant formula pricing); California Public Utilities Commission (teach regulatory economics & policy to Commission staff); Interstate Commerce Commission (rate regulatory policy, merger policy, costing methodology); Office of Technology Assessment (telecommunications policy); U.S. Department of Transportation (railroad industry rationalization, merger policy); U.S. General Accounting Office (transportation policy).

## Economic Consulting/Regulatory Expert Testimony to Private Enterprise:

Pacific Bell (product pricing, competitive strategy, regulatory policy, broadband deployment, MFJ interLATA relief); US WEST (regulatory policy, costing and pricing principles); Ameritech (price regulation; local competition policy); General Telephone (pricing, regulatory policy); Western Coal Traffic League (railroad pricing); Consolidated Freightways (motor carrier pricing); Southern Pacific Transportation Co. (route rationalization analysis; rail merger analysis; pricing of trackage rights); American Presidents Intermodal Co. (competition policy, merger analysis); Bell Communications Research (R&D policy analysis); Bell Atlantic (price regulation, cable rate regulation; cellular telephone joint venture); Southwestern Bell (price regulation, local competition policy); BellSouth (price regulation, local competition policy); NYNEX (FCC spectrum auction rules); United States Telephone Association (FCC price regulation); MFJ Task Force (MFJ manufacturing relief).

#### Economic Consulting/Business Litigation Expert Witness Testimony:

Electrical contracting; biotechnology manufacturing equipment; pipe fabrication; vision care services; electronic lighting ballasts; motion picture production, distribution and exhibition; regional shopping center development, semiconductor manufacturing equipment; digital-analog converters; workmen's compensation insurance; semiconductor manufacturing; semiconductor manufacturing.

## PRIOR/OTHER EMPLOYMENT

Deputy Director, Cost, Economic and Financial Analysis, Bureau of Accounts, Interstate Commerce Commission, Washington, D.C. (on leave, University of California); (1980-81).

Director, ARTRAIN (traveling art education exhibit), Michigan Council for the Arts, Detroit, (1971-72).

President, Young America Corporation (direct marketing of specialty products), St. Louis (1969-71).

Public Relations Consultant (TIME, Inc.; Rockefeller for President Committee; Young Citizens for Humphrey; Student Coalition for Congressional Action), New York and Washington D.C. (1967-69).

Vice President, National Student Marketing Corporation, Washington D.C. (1966-67).

Staff Assistant, Office of the Governor, State of Oregon, Salem (1966).

Public Relations Field Representative, General Motors Corporation, Warren, Michigan (1965).



ATTACHMENT C	



November 20, 1995

U 1001 C Advice Letter No. 17879

Advice Letter Compliance Filing for Co-Carrier Interconnection Agreement

Public Utilities Commission of the State of California

Pacific Bell (Pacific) attaches for filing the Co-Carrier Interconnection Agreement appended hereto.

We are submitting this Agreement in compliance with Decision No. 95-07-054, July 24, 1995, mingo, p. 37, where the Commission said:

"Accordingly, in those cases where CLCs are able to reach mutually agreeable terms and conditions for interconnection including compensation, the negotiating parities are free to execute such interconnection agreements without the need for Commission-imposed rules on terms and conditions.\*

\*Footnote 8. Commission approval of such mutually agreed on interconnection and compensation arrangement should be sought via an advice letter. Commission review will ensure that the arrangement is not unduly discriminatory nor anticompetitive."

The Co-Carrier Interconnection Agreement with MFS Intelenet of California, Inc. (MFS) is an important step in establishing local competition in California. It covers the following important areas:

-It allows immediate interconnection of MFS and Pacific networks for the exchange of local calls in a seamless manner. It calls for the use of "one-way" trunk groups by MFS and Pacific to facilitate network management, and establishes mutually agreed to meet points for interconnection.

-MFS will match the Commission approved "rating areas" for the rating of local and toll calls in Pacific's serving area. MFS will have access to NXX codes, and Pacific will not charge MFS for opening these codes in Pacific's switches.

#### PACIFIC BELL

-MFS will jointly provide switched access to allow customers and interexchange carriers to complete, or originate, toll calls over the MFS and Pacific networks. The Agreement provides for the sharing of switched access charges consistent with industry standards for jointly provided switched access services.

-Pacific and MFS have agreed to reciprocal compensation for local traffic at a rate of \$.0075 per minute. Rates comparable to Pacific's switched access rates will apply for the completion of intraLATA toll calls, and a rate of \$.0087 per minute applies to calls completed through interim number portability services.

-Pacific will allow access to a number of its support services under the Agreement. Access to E911, directory assistance, directory listing and call referral services is permitted. Additional services covering 900/976, and certain operator functions are also addressed.

-Resale of Pacific's unbundled links (loops) is also permitted beginning April 1, 1996. Prices are established for business and residence links based on geographic zones in California. The Zone 1 Basic Business Link rate is \$12.50 (including EUCL and CCL component). In addition, Pacific and MFS have agreed to non-recurring charges and coordination process for installation of Links.

-Interim number portability is provided through Pacific's Directory Number Call Forwarding Service (DNCF) at a rate of \$3.25 per month. In addition, non-recurring charges have been agreed upon.

The revenue effects of this Agreement on Pacific are uncertain and will depend upon a number of factors and future events. For that reason, we can only provide an estimated range of revenue effect. Pacific's estimate of that range is a loss of (annual effect) (\$9M - \$14M). This estimate is for this contract only, and does not include the broader revenue effects of local compettion and related events.

Consistent with the Commission's contracting rules, Pacific will make the terms and conditions of this filing available to similarly situated CLCs for interconnection to Pacific's network.

In compliance with Section III.G of General Order No. 96-A, we are mailing a copy of this advice letter and Agreement to competing and adjacent Utilities and/or other Utilities, and interested parties. In addition, we are mailing copies to parties (lists attached) who filed testimony or comments in the Commission's Local Competition (R.95-04-043), Universal Service (R.95-01-020) or OANAD (R.93-04-003) proceedings.

#### PACIFIC BELL

This filing will not increase any existing rate or charge, cause the withdrawal of service nor conflict with any other schedules or rules.

Anyone may protest this advice letter to the California Public Utilities Commission. The protest must set forth the specific grounds on which it is based, including such items as financial and service impact. A protest must be made in writing and received within 20 days of the date this advice letter was filed with the Commission. The address for mailing or delivering a protest to the Commission is:

Chief, CACD Telecommunications Branch 505 Van Ness Avenue, Room 3203 San Francisco, CA 94102

A copy must be mailed to the undersigned utility on the same date it is mailed or delivered to the Commission.

We ask that this advice letter become effective January 1, 1996.

Yours truly,

PACIFIC BELL

Executive Director

Attachments

## PACIFIC BELL

# PUBLIC UTILITIES COMMISSION R.95-04-043/I.95-04-044

#### SERVICE LIST

Maureen A. Swift Director Of Reg. Affairs ACC NATIONAL TELECOM CORP. 400 West Avenue Rochester, NY 14611

J. Scott Nicholls Sr. Manager-Reg. Affairs ALLNET COMMUNICATIONS SERVICES 1990 M St., N.W., Ste. 500 Washington, DC 20036

Cecil O. Simpson, Jr., Gen. Atty.
Regulatory Law Office
DEPARTMENT OF THE ARMY/FEA
901 North Stewart Street
Arlington, VA 22203-1837

Mary Krutchen, V.P. BANK OF AMERICA P.O. Box 37000, Dept. 5856 San Francisco, CA 94137

Stephen P. Bowen
BLUMENFELD & COHEN
101 California St., Ste. 4225
San Francisco, CA 94111

Alan Gardner/Glen Semow Regulatory & Legal Dept. CALIFORNIA CABLE T.V. ASSN. P.O. Box 11080 Oakland, CA 94611

Peter Casciato 8 California St., Ste. 701 San Francisco, CA 94111

Richard C. Nelson AIRTOUCH COMMUNICATIONS 1 California St., 9th Floor San Francisco, CA 94111 Julia Russo Director of Regulatory Affairs AMTEL COMMUNICATIONS, INC. 4025 Pleasantdale Rd., Ste. 545 Atlanta, GA 30340

Karen M. Potkul, Atty. AT&T 795 Folsom St., Rm. 625 San Francisco, CA 94107

Jeffrey F. Beck Jillisa Bronfman BECK & ACKERMAN Four Embarcadero Center, Suite 760 San Francisco, CA 94111

Donald Sessaman Exec. V.P. BROOKS FIBER COMMUNICATIONS 10316 Placer Lane Sacramento, CA 95827

Hong-Sze Yu
CARROLL BURDICK & MCDONOUGH
44 Montgomery St., Ste. 400
San Francisco, CA 94104-4606

Susan M. Redner
Associate General Counsel
CITIZENS UTILITIES COMPANY
Three High Ridge Park
Stamford, CT 06905

Jacqueline R. Kinney, Atty. CITIZENS UTILITIES COMPANY OF CALIFORNIA 8920 Emerald Park Dr., Ste. G Elk Grove, CA 95624 Thomas J. Burke CONTEL OF CALIFORNIA, INC. 5300 District Blvd. Bakersfield, CA 93313

E. G. Black/M. Schreiber COOPER WHITE & COOPER 201 California St., 17th Flr. San Francisco, CA 94111

Joseph S. Faber
DAVIS WRIGHT TREMAINE
235 Pine St., 15th Floor
San Francisco, CA 94102

David Carter, President DIALINK 164 E. Dana Street Mountain View, CA 94041-1508

T. M. Eagan/R. M. Ward EAGAN & WARD 1024 10th Street, Ste. 300 Sacramento, CA 95814-3514

Allan C. Hubbard, Counsel FAIRCHILD COMMUNICATIONS SERVICES COMPANY P.O. Box 10804 Chantilly, VA 22021

Thomas J. MacBride, Jr. John L. Clark
GOODIN MACBRIDE SQUERI
SCHLOTZ
505 Sansome St., 9th Floor
San Francisco, CA 94111

Ken McEldowney, Exec. Dir. CONSUMER ACTION
116 New Montgomery St.,
Ste. 233
San Francisco, CA 94105

Jeremy Stern, V.P. CONTINENTAL CABLEVISION 550 N. Continental Blvd., Ste. 250 El Segundo, CA 90245

Roger P. Downes COX CALIFORNIA PCS, INC. 2381 Morse Avenue Irvine, CA 92714 Gregory J. Kopta
DAVIS WRIGHT TREMAINE
2600 Century Square
1501 Fourth Avenue
Seattle, WA 98101

Laura H. Phillips, Esq. Peter A. Batacan, Esq. DOW LOHNES & ALBERTSON 1255 23rd St., N.W. Washington, DC 20037-1194

Ellen Deutsch, Chief Counsel ELECTRIC LIGHTWAVE, INC. 8100 N.E. Parkway Drive Vancouver, WA 98662

J. Scott Bonney, V.P.
Regulatory & External Affairs
FIBERLINK
2433 Carillon Point
Kirkland, WA 98033

Martin A. Mattes Suzanne E. Curtis One Maritime Plaza, 3rd Floor San Francisco, CA 94111

Richard E. Potter, Esq. GTE WEST COAST INCORPORATED 1800 41st Street Everett, WA 98201

Carol Lam, Regional Manager Regulatory & Industry Affairs GTE CALIFORNIA, INC. 711 Van Ness Ave., Ste. 300 San Francisco, CA 94102

Thomas Bugbee, Chief Regulatory Affairs COUNTY OF LOS ANGELES P.O. Box 2231 Downey, CA 90242

Robert J. Metzger, Director Department of General Services CITY OF LONG BEACH 333 West Ocean Blvd., 12th Floor Long Beach, CA 90802 4.4

William Harrelson MCI TELECOMMUNICATIONS CORP. 201 Spear Street, 9th Floor San Francisco, CA 94105

Mary E. Wand
MORRISON & FOERSTER
345 California St.,
30th Floor
San Francisco, CA 94104-2675

JOSE E. Guzman, Esq. NOSSAMAN GUTHNER KNOX AND ELLIOTT 50 California St., 34th Floor San Francisco, CA 94111

Judith Endejan/Susan Rossi Associate and General Counsel GTE CALIFORNIA, INC. One GTE Place, CA500LB Thousand Oaks, CA 91362

Jack Burk, President 5441-IEC INTEGRATED TELESERVICES, INC. 1915 North Fine St., Ste. 101 Fresno, CA 93727

D. F. Brent, Dir.-Reg. Affairs Pacific Region LDDS COMMUNICATIONS, INC. 9300 Shelbyville Rd., Ste. 700 Louisville, KY 40222

Kurt Maass 5400 Carillon Point Kirkland, WA 98033

Eric A. Artman
MFS INTELENET, INC.
Suite 5100
185 Berry St., Building One
San Francisco, CA 94107

Larry L. Sampson
NATIONAL EXCHANGE CARRIERS
ASSN. (NECA)
1320 Willow Pass Rd.,
Ste. 550
Concord, CA 94520

Andrey P. Rasmussen O'CONNOR & HANNAN, L.L.P. Suite 800 1919 Pennsylvania Avenue, N.W. Washington, DC 20006-1400

Fred W. Daniel
ORION TELECOM
P.O. Box 9227
Newport Beach, CA 92658-9227

Mark Savage Carmella Castellano PUBLIC ADVOCATES, INC. 1535 Mission Street San Francisco, CA 94103

Earl Nicolas Selby
LAW OFFICES OF EARL NICOLAS
SELBY
420 Florence Street
Palo Alto, CA 94301

Florence J. Pinigis
Carol B. Herringson
SOUTHERN CALIFORNIA EDISON
CO.
2244 Walnut Grove Ave.,
Rm. 359
Rosemead, CA 91770

Andrew D. Lipman
Richard M. Rindler
SWIDLER & BERLINER
3000 K Street, N.W., Ste. 300
Washington, DC 20007

Andrew Isar TELECOMMUNICATIONS RESELLERS ASSOCIATION P.O. BOX 2461 Gig Harbor, WA 98335

Michael Shames
Lisa Briggs
UTILITY CONSUMERS ACTION
NETWORK
1717 Kettner Blvd., \$105
San Diego, CA 92101

Robert J. Gloistein
ORRICK HERRINGTON & SUTCLIFFE
Old Federal Reserve Bank
Bldg.
400 Sansome St.
San Francisco, CA 94111-3143

Joseph T. Garrity, Director Regulatory and Legislative Affairs QWEST COMMUNICATIONS CORP. 555 Seventeenth Street Denver, CO 80202

C. Edward Wolf, President SENIOR UTILITY RATEPAYERS OF CALIFORNIA, INC. 1718 Tradewinds Lane Newport Beach, CA 92660

Patrick E. McMahon, Sr. Atty.
R. A. Purkey, Dir.-State
Reg.-W.
SPRINT COMMUNICATIONS CO.,
L.P.
1850 Gateway Drive, 7th Floor
San Mateo, CA 94404-2467

Michael A. Morris TCG WESTERN REGION 201 N. Civic Dr., Ste. 210 Walnut Creek, CA 94596

Thomas J. Long TOWARD UTILITY RATE NORMALIZATION 625 Polk Street, Ste. 403 San Francisco, CA 94102

David Wilner P.O. Box 2340 Novato, CA 94948-2340

Maia Ettinger, Reg. Counsel WORKING ASSETS 701 Montgomery Street, 4th Floor San Francisco, CA 94111

Jonathan Lakritz, CACD California Public Utilities Commission 505 Van Ness Avenue, Room 3-B San Francisco, CA 94102 ALJ Thomas Pulsifer California Public Utilities Commission 505 Van Ness Avenue, Room 5020 San Francisco, CA 94102

45

Assistant Director, CACD California Public Utilities Commission 505 Van Ness Avenue, Room 3209 San Francisco, CA 94102

Denise M. Brady Dept. of Public Works CITY OF SAN FRANCISCO 875 Stevenson St., Rm. 460 San Francisco, CA 94103

Thomas J. Nied, Major HQ AFC4A/JA Dept. of the Air Force 203 W. Losey St., Rm. 3001 Scott AFB IL 62225-5222

Helen Mickiewicz California Public Utilities Commission 505 Van Ness Ave., Rm. 4007 San Francisco, CA 94102

Janice Grau California Public Utilities Commission 505 Van Ness Ave., Rm. 5023 San Francisco, CA 94102

David M. Wilson, Esq.
David A. Simpson, Esq.
YOUNG VOGL HARLICK & WILSON
425 California St., Ste. 2500
San Francisco, CA 94014

Karen Jones, CACD California Public Utilities Commission 505 Van Ness Avenue, Room 3-D San Francisco, CA 94102 James McVicar California Public Utilities Commission 505 Van Ness Avenue, Room 3200 -San Francisco, CA 94102

4

Brad Barnum OFFICE OF GOV'TAL AFFAIRS CPUC-SACRAMENTO 1227 0 Street, Ste. 404 Sacramento, CA 95814

Virginia J. Taylor DEPARTMENT OF CONSUMER AFFAIRS Legal Services Unit 400 R Street, Suite 3090 Sacramento, CA 95814

Tracey F. Pirie Administrative Analyst City of Santa Barbara P. O. Box 1990 Santa Barbara, CA 93102-1990

Ira Kalinsky California Public Utilities Commission 505 Van Ness Ave., Rm. 5027 San Francisco, CA 94102

Rufus Thayer California Public Utilities Commission 505 Van Ness Ave., Rm. 5123 San Francisco, CA 94102

Lionel B. Wilson California Public Utilities Commission 505 Van Ness Ave., Rm. 4300 San Francisco, CA 94102

Brian Chang California Public Utilities Commission 505 Van Ness Ave., Rm. 4007 San Francisco, CA 94102 Zenaida Conway California Public Utilities Commission 505 Van Ness Ave., Rm. 4003 San Francisco, CA 94102

David Shantz
California Public Utilities
Commission
505 Van Ness Ave., Rm. 4003
San Francisco, CA 94102

Rob Feraru
California Public Utilities
Commission
505 Van Ness Ave., Rm. 5303
San Francisco, CA 94102

Linda Burton
Sierra Telephone Co., Inc.
P. O. Box 219
Oakhurst, CA 93644

Norman Low California Public Utilities Commission 505 Van Ness Ave., Rm. 4007 San Francisco, CA 94102

John Chan California Public Utilities Commission 505 Van Ness Ave., Rm. 4003 San Francisco, CA 94102

Dale Piiru California Public Utilities Commission 505 Van Ness Ave., Rm. 4003 San Francisco, CA 94102

Tom Lew California Public Utilities Commission 505 Van Ness Ave., Rm. 4007 San Francisco, CA 94102

Kevin P. Timpane 878 Elizabeth Street San Francisco, CA 94114 James Gurga, President S.P.I. 1102 Via Tornasol Aptos, CA 95003

# APPENDIX A

\*APPEARANCES\*

Robert M. Zoglin, President ABCO COMMENICATIONS, INC. 5681 Redwood Drive Suite 3 Robnert Park, CA 94928

Scott A. White AMET TELEGNAGESNT, INC. 14849 Firestone Blvd. Suite 225 La Mirada, CA 90638

Walter J. Sleeth AIMCOCH CELLULAR One California Street San Francisco, CA 94111

Karen M. Poticul A T & T 795 Folsom Street ROOM 625 San Francisco, CA 94107

Jeffrey F. Back, Jillian Bronfman BECK & ACKERMAN One Market Plaza 3950 Spear Tower San Francisco, GA 94105

Susan M. Redner, Atty. CITIZENS UTILITIES COMPANY Three High Ridge Park Stamford, CT 06905

CITY OF LOS ANGELES THE CITY COUNCIL CITY HALL-Room 300 200 N. Spring Street Los Angeles, CA 90012

Alvin Palavin/E. Black/Mark Schreiber COPER, WHITE & COPER 201 California St. 17TH Floor San Francisco, CA 94111

J. Faber/M. Trinchero/D. Waggoner DAVIS WRIGHT TROMAINE 235 Pine Street 15th Floor San Francisco, CA 94102 Shelley Bergum, Exec. Dir. DEAF AND DISABLED TELECOMMUNICATIONS PROCESM 1939 Harrison St., Suite 520 Cakland, CA 94612

Oscil O. Simpson, Jr., Gen. Atty. DEFAST OF THE ARMY OFFICE OF THE JUDGE ADVOCATE GEN. 901 North Stuart Street Arlington, VA 22203-1837

Nathlean S. Blunt/Judith Endejan OTE CALIFORNIA INC. One GIE Place CASOGLE Thousand Cales, CA 91362-3811

Richard McKenna, HQE03J36 GIE SERVICE CORPORATION P.O. Box 152092 Irving, TX 75015-2092

ANCHE J. LACIANCE, Atty. 1850 M Street, N.W Suite 1200 Washington, DC 20036

Earl Nicholas Selby ICG ACCESS SERVICES, INC. c/o LAW OFFICES OF EARL NICHOLAS SELBY 420 Florence Street, Suite 200 Palo Alto, CA 94301

Edward J. Perez LOS ANGELES CITY ATTORNEY'S OFFICE 1800 City Hall East Los Angeles, CA 90012

J. Welter Hyer III
MCCAW CELULAR COMMUNICATIONS, INC.
1750 Howe Avenue
Third Floor
Sacremento, CA 95825

Alan Pepper MITCHELL, SILBERBERG & NAUPP Trident Center 11377 West Olympic Boulevard Los Angeles, CA 90064-1683 R.95-01-020,I.95-01-021 APPENDIX A - Page 2

LAKTY Sampson HOTTONOL EXCHANGE CARRIER ASSOCIATION 1320 Willow Page Road Suite 550 Concord, CA 94520

Robert J. Gloistein CMUCK, HERMINGTON & SUTCLIFFE Old Federal Reserve Bank Building 400 Sansons Street San Francisco, CA 94111-3143

Marlin D. Ard/Timothy S. Dawson PACIFIC BELL 140 New Montgomery St., Room 1507 San Francisco, CA 94105

Mary B. Crenston/Magan W. Pierson FILISHEY MADISON & SUIPO 225 Bush Street P.O. Box 78880 San Francisco, CA 94120

Mark Sevege, Carmela Castellano FUELIC ADVOCATES, INC. 1535 Mission Street San Francisco, CA 94103

Randy Chira SERGIE ENERGY, UTILITIES AND CHRESTICATIONS CONSTITUE State Capitol, Room 408 Sacramento, CA 95814

Andrew D. Lipman/Russell M. Blau SWIDLER & MERLIN, CHARTERED 3000 K Street N.W. Suite 300 Washington, D.C. 20007

Thomas J. Long TOWARD UTILITY RATE NORMALIZATION 625 Polk St., Suite 403 San Francisco, CA 94102

Lisa Briggs/Michael Shames UTILITY CONSUMERS ACTION NETWORK 1717 Kettner Blvd. Suite 105 San Diego, CA 92101-2532

Terry L. Wilson-Gray UNIVERSAL LIFELINE TELEPHONE SERVICE TRUST 1970 Broadway, Suite 650 Cakland, CA 94612

Armando Valdez, Ph.D.
VALDEZ & ASSOCIATES
Talecom. Education Trust/Policy Educator
10 Jordan Avenue
Los Altos, CA 94022

Michael B. Day/Jerome F. Cardelaria WRIGHT ( LISHAN 100 Bush st., Suite 225 San Prencisco, CA 94104

ALJ Philip Weismahl RM. 5008

ALJ John Wong RM. 5019

DRA-Deputy Director/TELECOM . RM. 4101

STATE SERVICE R95-01-020/ 195-01-021

Shawn Thompson, Sr. Project Engineer Economic & Environmental Programs CTIY OF INVINE P.O. Box 19575 Irvine, CA 92713

Virginia J. Taylor, Staff Counsel DEPARTMENT OF CONUMER AFFAIRS . 400 R Street \$3090 Sacremento, CA 95814

Assistant Director-CACD RM. 3209

James McVicar RM. 3200

Patrick S. Bardge/Helen M. Mickiewics LEGAL DIVISION RM. 4300G

EDIORO DINCAN 4149 Raya Way San Diago, CA 92122-3603

Mr. Glen Sulliven, Attorney SOUTHERN CALIFORNIA GAS COMPANY 633 W. Fifth St., Suite 5200 Los Angeles, CA 90071-2071

City of Escendido Planning Division ATTN: Kristina Suszko 201 North Broadway Escendido, CA 92025

## R.93-04-003/I.93-04-002 Service List

W. Ettinger/R. Deutsch, Esqrs. AT&T Communications of Calif. 795 Folsom Street San Francisco, CA 94107

Robert B. Alexander, Jr. 620 "L" Street
Davis, CA 95616

Richard Strauss All Utilities Auditing Company 1820 Park Newport, Suite 209 Newport Beach, CA 92660

Rick Jarrett
Alltel Corporation
2121 N California Blvd., Ste. 400
Walnut Creek, CA 94596

Rick McAllister
Alltel Corporation.
One Allied Drive
Little Rock, AR 72202

Tom MacBride, Jr., Atty. at Law Armour, Goodin, Schlotz, MacBride 505 Sansome Street, Suite 900 San Francisco, CA 94111

James Armstrong, Gen. Attorney Judge Advocate Gerneral Ofc. Department of the Army 901 North Stuart Street Arlington, VA 22203-1837

Joan M. Griffin, Reg. Counsel BT Government Relations Suite 725, North Building 601 Pennsylvania Avenue, NW Washington, D.C. 20004 Carrington Phillip, Atty. at Law California Cable Television Assn. 4341 Piedmont Avenue P.O. Box 11080 Oakland, CA 94611

Julia Russo, Executive Director California Payphone Association 2033 N. Main St., Suite 1000B Walnut Creek, CA 94596

Peter A. Casciato, Atty. at Law Law Offices Of Peter A. Casciato 8 California St., Suite 701 San Francisco, CA 94111

Ellen Deutsch, Atty. at Law Citizens Utilities Co. of Calif. P. O. Box 340 Elk Grove, CA 95759

E. G. Black/M. Schreiber, Esqrs. Cooper, White and Cooper 201 California St., 17th Floor San Francisco, CA 94111

Judith A. Endejan, Atty. at Law GTE California Incorporated One GTE Place, CA500LB Thousand Oaks, CA 91362-3811

M.Mates/ R.Goldberg, Attys. at Law Graham and James One Maritime Plaza, Suite 300 San Francisco, CA 94111

Joseph S. Faber, Atty. at Law Davis, Wright & Tremaine 235 Pine Street, Suite 1500 San Francisco, CA 941042 Karen Wonnell
Bay Area Teleport
180 Grand Ave, Suite 2000
Oakland, CA 94612-3749

Stephen P. Bowen, Atty. at Law Blumenfeld and Cohen 101 California St., Suite 4225 San Francisco, CA 94111

Charles Tievsky, Rgltry. Atty.

Cable & Wireless Communications
1919 Gallows Road

Vienna, VA 22182

Mission Telecommunications Group Ednam Professional Center 2568 Ivy Road, Bldg. 3, Flr 1 Charlottesville, VA 22903

Alan Pepper, Esq.
Mitchell, Silberberg & Knupp
11377 West Olympic Boulevard
Los Angeles, CA 90064

Mary E. Wand Morrison & Foerster 345 California Street, 30th Floor San Francisco, CA 94104-2675

Terry L. Murray
Murray & Associates
101 California St., Ste. 4225
San Francisco, CA 94111

Robert J. Gloistein
Orrick, Herrington & Sutcliffe
400 Sansome Street
San Francisco, CA 94111

Ruth Day/Sandra Weiss
Government Affairs Department
Prodigy Services Company
445 Hamilton Avenue
White Plains, NY 10601

Robert J. Wullenjohn California Public Utilities Commission 505 Van Ness Ave., Rm. 5119 San Francisco, CA 94102 William G. Irving County of Los Angeles 14585 Chimney Rock Road Paso Robles, CA 93446

W. Harrelson/Mark Brown, Esqrs. MCI Telecommunications Corp. 201 Spear Street, 9th Floor San Francisco, CA 94105

Nick Selby
Law Offices Of
Earl Nicholas Selby
420 Florence St., Ste. 200
Palo Alto, CA 94301

Ann C. Pongracz
Sprint Communications Company
-1850 Gateway Dr., 7th Fl.
San Mateo, CA 94404-2467

Michael Morris
Teleport Communications Group
One Bush St., Ste. 1350
San Francisco, CA 94104

Manning Lee Teleport Communications Group Teleport 1, One Teleport Dr. Suite 301 Staten Island, NY 10311-1011

Thomas J. Long
Toward Utility Rate Normalization
625 Polk Street, Ste. 403
San Francisco, CA 94102

A. Kirk McKenzie Administrative Law Judge California Public Utilities Commission 505 Van Ness Ave., Rm. 5041B San Francisco, CA 94102

Keith J. Epstein Pacific Bell Information Services 3401 Crow Canyon Road, Ste. 100 San Ramon, CA 94583

Richard M. Rindler, Esq.
Attorney for Metropolitan Fiber
Systems of California, Inc.
Swidler & Berlin, Chartered
3000 K Street, N.W., Suite 300
Washington, DC 20007-5116

Karen Jones, Telecom California Public Utilities Commission 505 Van Ness Ave., Rm. 3-D San Francisco, CA 94102

John Gutierrez, Telecom California Public Utilities Commission 505 Van Ness Ave., Rm. 3-D San Francisco, CA 94102

Lionel B. Wilson, Esq.
Legal Division
California Public Utilities
Commission
505 Van Ness Ave., Rm. 5026
San Francisco, CA 94102

Martin J. O'Donnell, DRA California Public Utilities Commission 505 Van Ness Ave., Rm. 4012 San Francisco, CA 94102

Jeffrey F. Beck Karen Ackerman Jellisa Bronfman Beck & Ackerman Four Embarcadero Center, Suite 760 San Francisco, CA 94111

Kent W. Hughes, Manager Northern Telecom Inc. P.O. Box 5070 San Ramon, CA 94583

Robert C. Lane, DSP
California Public Utilities
Commission
505 Van Ness Ave., Rm. 5119
San Francisco, CA 94102

Mark Hellman
Oregon Public Utilities Commission
550 Capitol Street, NE
Salem, OR 97310

ALJ Jacqueline Reed
California Public Utilities
Commission
505 Van Ness Ave., Rm. 5011
San Francisco, CA 94102

Danny E. Adams, Esq.
Brad E. Mutschelknaus, Esq.
Rachel J. Rothstein, Atty. at Law
Attorneys for Interexchange Access
Coalition
Wiley, Rein & Fielding
1776 K Street, N.W.
Washington, DC 20006

Daniel M. Waggoner
Davis Wright Tremaine
2300 First Interstate Tower
1300 S.W. Fifth Avenue
Portland, Oregon 97201

Carol Lam, Regional Manager GTE California Incorporated 711 Van Ness Avenue, Suite 300 San Francisco, CA 94102

Dale Piiru
Division of Ratepayer Advocates
California Public Utilities
Commission
505 Van Ness Avenue, Room 4003
San Francisco, CA 94102

Ira Kalinsky Division of Ratepayer Advocates California Public Utilities Commission 505 Van Ness Avenue San Francisco, CA 94102

Teresa Marrero, Esq.
Teleport Communications Group
2 Teleport Drive
Staten Island, New York 10301

Carol Henningson/F. Pinigis Southern California Edison Co. P. O. Box 800, Legal D Rosemead, CA 91770

Paul Jones, Sr. V.P. Time Warner Communications 300 First Stamford Place Stamford, CT 06902-6732 Brad Barnum Calif.Pub. Util Commission Office of Governmental Affairs 1227 "O" Street, Suite 404 Sacramento, CA 95814

David M. Wilson Young Vogl Harlick and Wilson 425 California Street, Suite 2500 San Francisco, CA 94103

Kenneth Henderson Director - CACD CPUC 505 Van Ness Ave., Rm. 3209 San Francisco, CA 94102

City of Excondido Planning Division Kristina Suszko 201 North Broadway Escondido, CA 92025

James McVicar Chief/Telecom/CACD CPUC 505 Van Ness Ave., Rm. 3200 San Francisco, CA 94102

Virgina J. Taylor, Esq. State of CA Consumer Affairs Legal Affairs 400 R Street, Suite 3090 Sacramento, CA 95814

Thomas Corr, Esq. 1654 Lincoln Street Berkeley, CA 94703

0043167.01

Thomas Bugbee County of Los Angeles P. O. Box 2231 Downey, CA 90242

Darlene Kiehl, Attorney Wright and Talisman Shell Building, Suite 225 100 Bush Street San Francisco, CA 94101

Tom Miller
Northern Telecom Inc.
2305 Camino Ramon
San Ramon, CA 94583

Linda Madrid, Attorney at Law Morley Mendelson 700 South Flower Street Los Angeles, CA 90017

Barbara L. Snider, Esq. Citizens Telecom 8920 Emerald Park, Suite G Elk Grove, CA 95624

Thomas J. Burke
Manager -Revenue
Contel of CA, Inc.
5300 District Boulevard
Barkesfield, CA 93313

## CO-CARRIER AGREEMENT NOVEMBER 17, 1995

Pursuant to this Co-Carrier Agreement ("Agreement"), MFS Intelenet of California, Inc. ("MFS") and Pacific Bell ("Pacific") (collectively, "the Parties") will extend certain arrangements to one another within each LATA in which they both operate within the State of California, as described and according to the terms, conditions and pricing specified hereunder. This Agreement is an integrated package that reflects a balancing of interests critical to the Parties. It will be submitted to the California Public Utilities Commission as a compliance filing, and the Parties will specifically request that the Commission refrain from taking any action to change, suspend or otherwise delay implementation of the Agreement. So long as the Agreement remains in effect, the Parties shall not advocate before any legislative, regulatory, or other public forum that any terms of this specific Agreement be modified Notwithstanding this mutual commitment, however, the Parties enter or eliminated. into this Agreement without prejudice to any positions they have taken previously, or may take in the future in any legislative, regulatory, or other public forum addressing any matters, including matters related to the types of arrangements prescribed by this Agreement.

## I. RECITALS & PRINCIPLES

WHEREAS, universal connectivity between competing common carriers is necessary for the termination of traffic on each carrier's network; and

WHEREAS, absent such connectivity the utility of communications services to individual consumers and to society as a whole would be severely and unnecessarily diminished; and

WHEREAS, the Parties should be able to efficiently, flexibly, and robustly exchange traffic and signalling at well-defined and standardized points of mutually agreed interconnection; and

WHEREAS, the Parties acknowledge that the terms and conditions herein represent a balancing of interests critical to the parties, and for that reason will, unless otherwise agreed, implement this Agreement as an integrated package without alteration of any material term or condition, or the inclusion or deletion of terms and conditions that would serve to alter a material term or condition herein;

NOW, THEREFORE, in consideration of the mutual provisions contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged. MFS and Pacific hereby covenant and agree as follows:

## II. DEFINITIONS

- A. "Automatic Number Identification" or "ANI" is a Feature Group D signalling parameter which refers to the number transmitted through the network identifying the billing number of the calling party.
- B. "Calling Party Number" or "CPN" is a Common Channel Signalling parameter which refers to the number transmitted through the network identifying the calling party.

C. "Central Office Switch", "Central Office" or "CO" means a switching entity within the public switched telecommunications network, including but not limited to:

"End Office Switches" which are Class 5 switches from which end user Exchange Services are directly connected and offered.

"Tandem Office Switches" which are Class 4 switches which are used to connect and switch trunk circuits between and among Central Office Switches.

Central Office Switches may be employed as combination End Office/Tandem Office switches (combination Class 5/Class 4).

- D. "CLASS Features" mean certain CCS-based features available to end users. CLASS features include, but are not necessarily limited to: Automatic Call Back; Call Trace; Caller ID and Related Blocking Features; Distinctive Ringing/Call Waiting; Selective Call Forward; Selective Call Rejection.
- E. "Commission" means the California Public Utilities Commission.
- F. "Common Channel Signalling" or "CCS" means a method of digitally transmitting call set-up and network control data over a special network fully separate from the public switched network elements that carry the actual call.